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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No. ECC-5774

In Re Application Of: **Roteliuk, et al.**

Serial No.	Filing Date	Examiner	Group Art Unit
10/728,705	**12/05/2003**	**Unknown**	**3764**

Title: **PRESSURE-BASED SYSTEM AND METHOD FOR DETERMINING CARDIAC STROKE VOLUME**

Address to:
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37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

   ☐ the statement specified in 37 CFR 1.97(e);

   OR

   ☐ the fee set forth in 37 CFR 1.17(p).

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PRESSURE-BASED SYSTEM AND METHOD FOR DETERMINING CARDIAC STROKE VOLUME

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known	
Application Number	10/728,705
Filing Date	December 5, 2003
First Named Inventor	Roteliuk
Art Unit	3764
Examiner Name	Unknown
Attorney Docket Number	ECC-5774

Examiner Initials*	Cite No.[1]	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number – Kind Code[2] *(If known)*		
	AA	US-4,429,701	2/7/1984	Goor, et al.
	AB	US-4,595,015	6/17/1986	Jansen, et al.
	AC	US-4,798,211	1/17/1989	Goor, et al.
	AD	US-5,101,828	4/7/1992	Welkowitz, et al.
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	AM	US-5,526,817	6/18/1996	Pfeiffer, et al.
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	AT	US-5,797,395	8/25/1998	Martin
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	AW	US-5,876,347	3/2/1999	Chesney, et al.
	AX	US-5,913,826	6/22/1999	Blank
	AY	US-6,004,274	12/21/1999	Nolan, et al.

[1]Applicant's unique citation designation number (optional). [2]See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard St. 3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. [6]Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (Use as many sheets as necessary) Sheet 2 of 5	***Complete if Known***	
	Application Number	10/728,705
	Filing Date	December 5, 2003
	First Named Inventor	Roteliuk
	Art Unit	3764
	Examiner Name	Unknown
	Attorney Docket Number	ECC-5774

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-		Number – Kind Code[2] *(If known)*		
	AZ	US-6,010,457	1/4/2000	O'Rourke
	BA	US-6,017,313	1/25/2000	Bratteli, et al.
	BB	US-6,048,318	4/11/2000	Chesney, et al.
	BC	US-6,071,244	6/6/2000	Band, et al.
	BD	US-6,090,047	7/18/2000	Kass, et al.
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	BH	US-6,228,033 B1	5/8/2001	Kööbi, et al.
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	BK	US-6,290,651 B1	9/18/2001	Chesney, et al.
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	BN	US-6,394,958 B1	5/28/2002	Bratteli, et al.

Examiner Initials*	Cite No.[1]	Foreign Patent Document			Publication Date MM-DD-YYYY	T[6]
		Office Code[3]	Number[4]	Kind Code[5] *(If known)*		
	BO		EPO 393 228 A1		10/24/1990	√
	BP		EPO 420 085 A2		4/3/1991	German? Abstract
	BQ		EPO 448 979 A1		10/2/1991	√
	BR		EPO 564 492 B1		10/13/1993	√
	BS		EPO 569 506 B1		11/18/1993	√

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	First Named Inventor	Roteliuk
	Art Unit	3764
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		Office Code[3]	Number[4]	Kind Code[5] *(If known)*		
	BT		EPO 642 760 A1		3/15/1995	√
	BU		EPO 947 160 A1		10/6/1999	√
	BV		EPO 947 941 A2		10/6/1999	√
	BW		WO 90/03145		4/5/1990	√
	BX		WO 90/11042		10/4/1990	√
	BY		WO 92/06633		4/30/1992	√
	BZ		WO 92/11804		7/23/1992	√
	CA		WO 92/12669		8/6/1992	√
	CB		WO 94/14372		7/7/1994	√
	CC		WO 94/22363		10/13/1994	Japanese Abstract
	CD		WO 95/16391		6/22/1995	√
	CE		WO 97/24982		7/17/1997	√
	CF		WO 98/19594		5/14/1998	√
	CG		WO 99/02086		1/21/1999	√
	CH		WO 00/64339		11/2/2000	√

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date, publisher, city and/or country where published.	T[6]
	CI	Antonutto, G.; Girardos, M.; Tuniz, D.; di Prampero, P.E.; "Noninvasive assessment of cardiac output from arterial pressure profiles during exercise"; European Journal of Applied Physiology, 72 (1995), 18-24	√
	CJ	Fagard, R. and Conway, 3 (1990); "Measurement of cardiac output: Fick principle using catheterization"; Eur. Heart J. 11, Suppl. I, pp. 1-5	√
	CK	Ganz, W. and Swan, H.J.C. (1972); "Measurement of blood flow by thermodilution"; Am. J. Cardiol. 29, pp. 241-246	√

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				First Named Inventor	Roteliuk
				Art Unit	3764
				Examiner Name	Unknown
Sheet	4	of	5	**Attorney Docket Number**	ECC-5774

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	CL	Goedje, O.; Hoeke, K.; Lichtwark-Aschoff, M.; Faltchauser, A.; Lamm, P.; Reichart, B.; "Continuous cardiac output by femoral arterial thermodilution calibrated pulse contour analysis: Comparison with pulmonary arterial thermodilution"; Critical Care Medicine, 27 (1999), 2407-2412	√
	CM	Gratz, I; Kraidin, J.; Jacobi, A.G.; deCastro, N.G.; Spagna, P.; Larijani, G.E.; "Continuous noninvasive cardiac output as estimated from the pulse contour curve"; Journal of Clinical Monitoring, 8 (1992), 20-27	√
	CN	Harms, M.P.M.; Wesseling, K.H.; Pott, F., et al. (1999); "Continuous stroke volume monitoring by modelling flow from non invasive measurement of arterial pressure in humans under orthostatic stress"; Clin. Sci. 97, pp. 291-301	√
	CO	Houtman, S.; Oeseburg, B. and Hopman, M.T.E. (1999); "Non invasive cardiac output assessment during moderate exercise: pulse contour compared with C02 rebreathing"; Clin. Physiol. 19, pp. 230-237	√
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	CQ	Jansen, J.R.; Wesseling, K.H.; Settels, J.J.; Schreuder, J.J.; "Continuous cardiac output monitoring by pulse contour during cardiac surgery"; European Heart Journal, 11 (1990), 26-32	√
	CR	Jansen, J.R.C.; Schreuder, J.J.; Mulier, J.P.; Smith, N.T.; Settels, J.J. and Wesseling, K.H.; "A comparison of cardiac output derived from the arterial pressure wave against thermodilution in cardiac surgery patients"; British Journal of Anaesthesia, 87 (2) (2001), 212-22	√
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	CV	McKay, W.P.; Gregson, P.H.; McKay, B.W.; Militzer, J.; "Sternal acceleration ballistocardiography and arterial pressure wave analysis to determine stroke volume"; Clinical and Investigative Medicine, 22 (1999), 4-14	√
	CW	Martin, J.F.; Volfson, L.B.; Kirzon-Zolin, V.V.; Schukin, V.G.; "Application of pattern recognition and image classification techniques to determine continuous cardiac output from the arterial pressure waveform"; IEEE Transactions on Biomedical Electronics, 41 (1994), 913-920	√

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Sheet	5	of	5	**Attorney Docket Number**	ECC-5774

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date, publisher, city and/or country where published.	T[6]
	CX	Romano, Salvatore M.; Pistolesi, Massimo; "Assessment of cardiac output from systemic arterial pressure in humans"; Crit Care Med 2002 Vol. 30, No. 8, pp. 1834-1841	√
	CY	Sprangers, R.L.; Wesseling, K.H.; Imholz, A.L.; Imholz, B.P. and Wieling, W. (1991); "Initial blood pressure fall on stand up and exercise explained by changes in total peripheral resistance"; J. Appl. Physiol. 70, pp. 523-530	√
	CZ	Stok, W.J.; Baisch, F.; Hillebrecht, A.; Schulz, H. and Karemaker, J.M. (1993); "Noninvasive cardiac output measurement by arterial pulse analysis compared to inert gas rebreathing"; J. Appl. Physiol. 74, pp. 2687-2693	√
	DA	Stok, W.J.; Stringer, R.C.O. and Karemaker, J.M. (1999); "Noninvasive cardiac output measurement in orthostasis: pulse contour analysis compared with acetylene rebreathing"; J. Appl. Physiol. 87, pp. 2266-2273	√
	DB	Wesseling, K.H.; Dc Wit, B.; Weber, J.A.P. and Smith, N.T. (1983); "A simple device for the continuous measurement of cardiac output. Its model basis and experimental verification"; Adv. Cardiol. Phys. 5, Suppl. II, pp. 16 52	√
	DC	Wesseling, K.H.; Jansen, J.R.C.; Settels, J.J. and Schreuder, J.J. (1993); "Computation of aortic flow from pressure in humans using a nonlinear, three element model"; J. Appl. Physiol. 74, pp. 2566-2573	√

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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